

2D FERROELECTRICS AND THEIR PERSPECTIVES FOR **NEURAL NETWORKS**

Monday 16/09		Tuesday 17/09		Wednesday 18/09				
• Dinne	ers are in Antibes downtown	09:30 10:10	Kenji Yasuda (Cornell University, USA) Moiré substrate and nonvolatile memory based on sliding ferroelectricity Gaia Maffione (C2N, Paris-Saclay, France) Ferroelectricity in dynamically rotatable dual-gated heterostructures	09:30 10:10	Astrid Weston (Universiting junctions based on interest ferror ferror Anna Ott (GREMAN, Tour spectroscopy of	erfacial twelectrics s, France)	vo dimensi Spatially-r	onal
Talks, poster session, breaks and lunches are		10:35	break	10:35	b	reak		
at CRHEA-CNRS (rue. B. Gregory, Valbonne)		11:00 11:40	Jonathan Finley (TUM, Munich, Germany) Probing interactions in 2D-heterostructures: excitons, phonons and strongly correlated phases Amalia Patanè (Nottigham University, UK) Ferroelectric semiconductors with inverted Mexican Hat-Shaped Valence Band	11:00 11:40	Matthieu Jamet (CEA G growth of the 2D ferroel Waals hete Gaia Di Berardino (C2N, lateral heterojunctions in	ectrics In 2 Prostructurostrostrostrostrostrostrostrostrostrost	?Se3 and v res ay, France)	an der 3R-2H
		12:20	Pedro Soubelet (TUM, Munich, Germany) Trion kinetics and 1D exciton confinement in monolayer MoSe2 near ferroelectric domain walls in periodically poled LiNbO3	12:05		end		
12:30	registration, welcome	12:45	lunch break					
14:30	intro	14:00	Jinghua Teng (IMRE A*STAR, Singapore) Electro-optic and excitonic effect in 2D materials for tunable metaoptics					
14:40	Moshe Ben Shalom (Tel Aviv University, Israel) Sliding vdW polytypes	14:40	Sebastien Roux (LPCNO, Toulouse, France) Interaction between a ferroelectric hexagonal boron nitride interface and a 2d semicondutor					
15:20	Romain Bourrelier (Park Systems, Orsay, France) A Comprehensive Look at Ferroelectric 2D material Materials using Scanning Probe Microscopy	15:05	Ziliang Ye (University of British Columbia, Canada) Ferroelectric switching of light-matter interactions in rhombohedral MoS2					
15h45	break	15:45	break					
16h00	Dirk Englund (MIT, USA) Optical Neural Networks	16:05	Du Luojun (IoP CAS, Beijing, China) 2D sliding ferroelectric memories and synapses					•
16:40	Bohdan Kundys (IPCMS, Strasbourg, France) Towards single wavelength optical neuromorphics with 2d/photoferroelectric heterostructures	16:45	Simon Salleh Atri (Tel Aviv University, Israel) Spontaneous electric polarization in graphene polytypes					•
17:05	break	17:10	Emeline Nysten (University of Munster – Germany) Manipulation of Transition Metal Dichalcogenides Properties Using Surface Acoustic Waves					•
17:25	Louis Pacheco (CSI Instruments, France). TBA	17:35	Poster session					
17:35	Jean-François Dayen (IPCMS, Strasbourg, France) Van der Waals ferroelectric heterostructures for in-memory computing and beyond Moore electronics							
18:15	go to Antibes	18:30	go to Antibes					
19:30	Dinner in Antibes harbor (Bistro Margaux)	19:45	Gala Dinner in Antibes old town (Le Safranier)					•











